

## ABSTRACT OF THE DISCLOSURE

The present invention is a method and apparatus for automatic calibration of wireless positioning system base stations. An automated system and method for calibrating a location system comprises obtaining at least one position assertion with a corresponding base station-centric position assertion on at least one mobile communication device. A latency calibration record is maintained which includes a current base station latency estimate for a base station controller. The measured position assertion is analyzed in relation to the base station-centric position assertion and the latency calibration record, to develop a new base station latency estimate. The latency calibration record is refined using the new base station latency estimate and the steps are repeated to further refine the latency calibration record.